

NH Public Utilities Commission

REC Aggregator Portal

NHPUC MAY05'16 PM12:46

New Users [CLICK HERE](#) to setup your account for this form. Creating an account enables you to partially complete the form and return later to finish it or to make changes after the form is submitted. Be sure to create your account **BEFORE** entering information into the form, or the information will be lost.

Existing Users [CLICK HERE](#)

Basic Information

Who is submitting this request?

Aggregator

Aggregator Batch Number

KE050216

Are you registered in NH

- ☒ Yes
☐ No

Aggregator name

Knollwood Energy

NH Reg #

Aggregator Email

karenton@knollwoodenergy.com

Other Aggregator name

Other aggregator email address

Facility Name

Facility Owner Name

George Murray

Facility Owner email

gem2211@aol.com

Owner Phone

603-401-2868

Facility Address

384 New Rye Road

Facility Town/City

Epsom

Facility State

NH

Facility Zip

03234

Is the facility address the same as the owner's mailing address

☒ Yes

☐ No

Mailing Address

Mailing Town/City

Mailing State

Mailing Zip

Primary Contact

Karen Tenneson

Primary Contact

Facility Primary Contact

karenton@knollwoodenergy.com

Other Email Address

Facility Information

Class

Utility

Other Utility Name

To obtain a GIS ID contact:

James Webb

408 517 2174

jwebb@apx.com

GIS ID (include "NON")

Date of Initial Operation

Facility Operator Name, if applicable

Panel Make #1

Panel Model

Panel Quantity

Panel Rated Output

More Panel types?

- ☒ No
☐ Yes

Panel Make #2

Panel Model

Panel Quantity

Panel Rated Output

More Panel types?

- ☒ No
☐ Yes

Panel Make #3

Panel Model

Panel Quantity

Panel Rated Output

System capacity based on panels

Inverter Quantity

Inverter Make

Add'l Inverter Quantity

Additional Inverter Make

Rated Output - Primary Inverter

215

Rated Output - Additional Inverter

System capacity based on single inverter make

7740

System capacity based on two inverter types

System capacity in kW as stated on the interconnection agreement

9.72

Revenue Grade Meter Make

AEE Solar

Was this facility installed directly by the customer (no electrician involved)?

- ☐ Yes
☒ No

Electrician Name & Number

Brian Pare12245M

Other Electrician Name & Number

Installation Company

SunRay Solar

Other Installation Company Name

Other Inst. Company Address

Other Inst. Company City

Other Inst. Company State

Other Inst. Company Zip

Independent Monitor Name & Company

Paul Button - Energy Audits Unlimited

Other Monitor Name and Company

Is the installer also the equipment supplier?

- ☒ Yes
☐ No

Equipment Vendor

Please attach your completed interconnection agreement including Exhibit B.

https://fs30.formsite.com/jan1947/files/f-5-99-6688013_XrWxfK5f_GMurray_Exhibit_B_COC.pdf

The project described in this application will meet the metering requirements of PUC 2506 including:

Electricity generation in megawatt hours shall be reported to the GIS quarterly with a statement that the submission is accurate by the owner of the source, the independent monitor or a designated representative.

A revenue quality meter is used to measure the electricity generated.

The facility owner has certified to the independent monitor that the meter operates according to manufacturing standards.

The meter shall be maintained according to the manufacturer's recommendations.

The project is installed and operating in conformance with applicable building codes.

A copy of the facility's interconnection agreement is attached.

Please attach additional document here

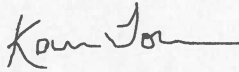
https://fs30.formsite.com/jan1947/files/f-5-168-6688013_Jwlp4V3O_GMurray_Agreements_part_3_-_s

Please attach additional document here

https://fs30.formsite.com/jan1947/files/f-5-173-6688013_UbGFMqjk_GMurray_Exhibit_A_Signed_Com

Aggregator statement of accuracy

Sign your name using a mouse or, if you are using a touch-screen device, a stylus or other pointer.



Print Name

Karen Tonnesen

Date Signed

05/02/2016



UNITIL ENERGY SYSTEMS, INC.
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA (Continued)

Simplified Process Interconnection Application and Service Agreement

Contact Information:

Date Prepared: 4/20/15

Legal Name and address of Interconnecting Customer (or, Company name, if appropriate)

Customer Name (print): George Murray Contact Person, if Company: _____

Mailing Address: 384 New Rye Road

City: EPSOM State: NH Zip Code: 03234

Telephone (Daytime): 603-401-2868 (Evening): _____

Facsimile Number: _____ E-Mail Address: GEM2211@AOL.COM

Alternative Contact Information (e.g., system installation contractor or coordinating company, if appropriate):

Name: SunRay Solar, LLC

Mailing Address: 249 London Road 124A Hall St

City: Concord State: NH Zip Code: 03301

Telephone (Daytime): 603-225-6001 (Evening): _____

Facsimile Number: _____ E-Mail Address: rick@spreadthesunshine.com

Electrical Contractor Contact Information (if appropriate): Rick @ spread the Sunshine . com

Name: _____ Telephone: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Facility Information:

Address of Facility: 384 New Rye Road

City: EPSOM State: NH Zip Code: 03234

Electric Service Company: Unitil Account Number: 1002061-1001010 Meter Number: 461222

Inverter Manufacturer: Enphase Model Name and Number: M-215 Quantity: 36

Nameplate Rating: 215 (kW) _____ (kVA) 240 (AC Volts) Single ☒ or Three _____ Phase

System Design Capacity: 7.74 (kVA) _____ (kVA)

Net Metering: If Renewably Fueled, will the account be Net Metered? Yes ☒ No _____

Prime Mover: Photovoltaic ☒ Reciprocating Engine ☐ Fuel Cell ☐ Turbine ☐ Other _____

Energy Source: Solar ☒ Wind ☐ Hydro ☐ Diesel ☐ Natural Gas ☐ Fuel Oil ☐ Other _____

UL 1741.1 (IEEE 1547.1) Listed? Yes ☒ No _____

Estimated Install Date: _____ Estimated In-Service Date: _____

Customer Signature

I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the Terms and Conditions on the following page:

Interconnecting Customer Signature: George Murray Date: 4-13-15

Please attach any documentation provided by the inverter manufacturer describing the inverter's UL 1741 listing.

Approval to Install Facility (For Company use only)

Installation of the Facility is approved contingent upon the terms and conditions of this Agreement, and agreement to any system modifications, if required (Are system modifications required? Yes _____ No _____ To be Determined _____):

Company Signature: _____ Title: _____ Date: _____

Company waives inspection/Witness Test? Yes _____ No _____



UNITIL ENERGY SYSTEMS, INC.
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA (Continued)

Exhibit A – Simplified Process Interconnection Application

Instructions *(please do not submit this page)*

General Information: If you, the Interconnecting Customer, wish to submit an application to interconnect your generating Facility using the Simplified Process (reference Section 3.1 of the Interconnection Standard for eligibility) please fill out the attached application form completely (not including this page of instructions), including your signature in the space provided. Interconnections that may be eligible for this Simplified Process include UL 1741-Listed inverter-based Facilities that are either (1) connecting to radial electric power systems with power ratings of ≤ 100 kVA, or (2) connecting to spot network electric power systems with power ratings of ≤ 10 kVA single-phase. Please attach any documentation provided by the inverter manufacturer concerning the UL 1741. Certain types of facilities may be required to install a fully rated lockable switch near the service entrance for use by utility personnel pursuant to Chapter PUC 900 rules.

Mail all material to: **Generator Interconnection Applications, Unitil, 325 West Road, Portsmouth, NH 03801**

The Simplified Process is as follows:

1. Application process:
 - a. Interconnecting Customer submits a Simplified Application filled out properly and completely.
 - b. Company evaluates the application for completeness and notifies the Interconnecting Customer within 10 business days of receipt that the application is or is not complete and, if not, advises what is missing.
2. Company verifies Facility equipment can be interconnected safely and reliably.
3. If approved, the Company signs the application and returns a copy to the Interconnecting Customer.
4. Upon receipt of the signed application, the Interconnecting Customer installs the Facility. Then the Interconnecting Customer arranges for inspection of the completed installation by the local electrical wiring inspector, or other authority having jurisdiction, and this person signs the Certificate of Completion. If the Facility was installed by an electrical contractor, this person also fills out the Certificate of Completion.
5. In certain circumstances, the Company will require the Interconnecting Customer to pay for System Modifications. If so, a description of work and an estimate will be sent back to the Interconnecting Customer for approval. The Interconnecting Customer would then approve via a signature and payment for the System Modifications. If the Interconnecting Customer approves, the Company performs the System Modifications. Then, the Company signs the application and sends the approved application back to the Interconnecting Customer.
6. The Interconnecting Customer returns the Certificate of Completion to the Company.
7. Following receipt of the Certificate of Completion, the Company may inspect the Facility for compliance with standards by arranging for a Witness Test. Except for a short test by the installer to confirm the system works properly, the Interconnecting Customer has no right to operate in parallel (interconnect) until a Witness Test has been performed or has been previously waived by the Company on the Application Form. The Company will make every attempt to complete this Witness Test within 10 business days of its receipt of the Certificate of Completion. All projects larger than 10 kVA will need to be witness tested, unless waived by the Company.
8. Assuming the wiring inspection and/or Witness Test is satisfactory, the Company notifies the Interconnecting Customer in writing that interconnection is authorized. If the Witness Test is not satisfactory, the Company has the right to disconnect the Facility, and will provide information to the Interconnecting Customer describing clearly what is required for approval.

Contact Information: You must provide the contact information for the legal applicant (i.e. the Interconnecting Customer). If other parties are responsible for interfacing with the Company, you should provide their contact information as well.

Ownership Information: Please enter the legal names of the owner or owners of the Facility.

Generating Facility Information: Please consult an actual electric bill from the Electric Service Company and enter the correct Account Number and meter number on this application. If the facility is to be installed in a new location, a temporary number may be assigned by the Electric Company.

Confidentiality: Information on this form will be shared with the Commission and other State Agencies as required.

UL 1741 Listed? The standard UL 1741.1 dated May, 2007 or later, "Inverters, Converters, and Controllers for Use in Independent Power Systems," addresses the electrical interconnection design of various forms of generating equipment. Many manufacturers choose to submit their equipment to a Nationally Recognized Testing Laboratory (NRTL) that verifies compliance with UL 1741.1. This term "Listed" is then marked on the equipment and supporting documentation.



UNITIL ENERGY SYSTEMS, INC.
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA (Continued)

Exhibit B - Certificate of Completion for Simplified Process Interconnections

Installation Information:

☐ Check if owner-installed

Customer(print): George Murray
Mailing Address: 384 New Rye Rd
City: Epsom State: NH Zip Code: 03234
Telephone (Daytime): 6034012868 (Evening): _____
Facsimile Number: _____ E-Mail Address: gem2211@aol.com

Address of Facility (if different from above): _____
City: _____ State: _____ Zip Code: _____

Electrical Contractor's Name (if appropriate): Sun Ray Solar
Mailing Address: 124 Hall street
City: Concord State: NH Zip Code: 03301
Telephone (Daytime): 6032256001 (Evening): 6032256001
Facsimile Number: _____ E-Mail Address: Rick@spreadthesunshine.com
License number: 0358C

Date of approval to install Facility granted by the Company: _____

Application ID number: _____

Inspection:



The system has been installed and inspected in compliance with the local Building/Electrical Code of

Epsom Fire Dept Epsom NH.
(City/County)

Signed (Local Electrical Wiring Inspector, or attach signed electrical inspection):

Name (printed): Matthew Moulton Epsom Fire Dept.

Date: 5-15-15

As a condition of interconnection you are required to send/fax a copy of this form to:

Generator Interconnection Applications
Unitil
325 West Road
Portsmouth, NH 03801
Fax: 603-294-5226

New Hampshire PUC REC Certification Application Owner Statements

The information provided on this application for New Hampshire Renewable Energy Certificate eligibility is accurate to the best of my knowledge and I authorize Knollwood Energy to act on my behalf in filing said application.

The project described in this application will meet the metering requirements of PUC 2506 including:

Electricity generation in megawatt hours shall be reported to the GIS quarterly with a statement that the submission is accurate by the owner of the source, the independent monitor, or a designated representative.

A revenue quality meter is used to measure the electricity generated.

The facility owner has certified to the independent monitor that the meter operates according to manufacturing standards.

The meter shall be maintained according to the manufacturer's recommendations.

The project is installed and operating in conformance with applicable building codes.

A copy of the facility's interconnection agreement is attached.

George E Murray

Printed Name of signature owner

George E Murray
George E Murray (Apr 27, 2016)

Signature of system owner